



SORBERDAMP™

composite vibration damping and absorbing pad

Sorberdamp[™] is an adhesive-backed composite pad, combining the benefits of a vibration damper and a noise absorber. It is designed to reduce resonant vibration and airborne sound within light gauge metal, timber and plastic structures of less than 3mm thickness.

Sorberdamp's multilayered construction comprises a damping material, laminated to a foil faced, high performance noise absorbing polyurethane foam, -Sorberfoam[™]. The standard foil facing - AGC, is a flame retardant aluminium glass cloth with fire retardant adhesive, complying with the highest rating to British fire standard and IMO Marine standard. The product has a high tack, peel and stick, pressure sensitive adhesive applied to the damping layer contact surface.

Being lightweight and flexible, Sorberdamp readily conforms to irregular surfaces and finds popular use in light-gauge panel components in automotive vehicles, boats, buses and trains. It works effectively in enclosed spaces such as engine bays, air-conditioning ducts and generators.

The damping layer controls the ringing noise from components under their operating cycle by dissipating the vibration energy within the structure. This inhibits build-up of resonant vibrations, considerably reducing radiated noise. The foam layer exhibits impressive performance in absorbing any air-borne noise generated in such enclosures.

The AGC covering, enhances the fire and thermal insulation performance of the product and tunes the foam to enhance noise absorption in the mid to low frequency range, besides providing additional protection to the foam from mechanical damage and dirt, oil and liquid ingress.

SPECIFICATIONS

- thickness 6 to 50mm and compositions with other absorber materials including, fibreglass, Available melamine or polyester fibre - with matching AGC tape to seal joins.



applications

- Automotive floors, firewalls, doors, ceiling and boot panels
- Marine vessels: bulkheads, deckheads, hull construction and ventilation
- Generators, compressor covers and machine housing guards
- Metal air-conditioning ducts and compressor housings
- Laundry and garbage chutes, hoppers, lids and bins
- White goods and under sink bowls

features

- Dual benefits vibration damping and noise absorption
- Flame retardant aluminium glass cloth covering with highest fire ratings - Class 'O' to British standards.
- Ideal for lightweight panels and steel substrates of less than 3mm thickness
- No ozone-depleting substances are generated during manufacture
- Free from lead, odour-producing oils and bitumen
- Performance across a broad temperature range
- Lightweight, only 75% surface coverage is required to obtain maximum damping performance
- Easy to cut
- Easy installation with high-tack peel and stick adhesive
- Resistant to weather and UV light
- Can be constructed with other surface coverings



PRODUCT SPECIFICATIONS

Thickness (mm)	Sheet sizes (mm)	Weight (kg/m²)	Peel strength (180°/ Stainless Steel) (N/25mm) AFERA 4001	Operating temperature range (°C)
25	1000 x 1300	3	>24	-10 to 100 (Continuous) -10 to 120 (Intermittent)

Tolerances: Length: -0/+50mm; Width: -0/+5mm; Thickness: +/- 0.5mm; Weight: -0/+10%

MATERIAL PROPERTIES

Test method	Index	Report no.	Results	Description
ISO 4589.2 & 3— 1996	Limiting Ambient Oxygen Index (LOI)	Report No. 328271/2	22.6% 21.3%	Determination of the burning behaviour of plastics by oxygen index at ambient and elevated temperature of 60oC.
EN ISO 9094-1:2003	Classification/ Compliance	Report No. 328272(A) Summary Report	Complies	Complies to Directive 94/25/ EC. Material suitable for use as insulation of engine space in recreational maritime craft.
UL94	After flame time ≤ 2 seconds	Report No. 13513JY7	HF-1**	Horizontal burn test for foam materials
FMVSS-302*	Burn Rate - mm/min	Report No. 14713JY1	Self Extinguishing	Automotive burn rate test. Complies

^{*}For plain foam only

ACOUSTIC PERFORMANCE

INCREASE IN DECAY RATE (dB/Sec) ON 1mm SUBSTRATE				
Steel	61%			
Aluminium	77%			

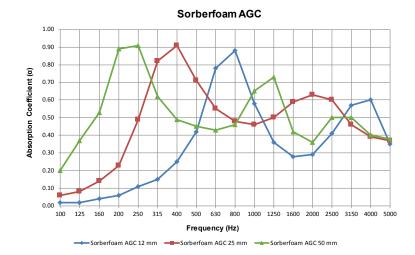
Report Number: 27313AR



^{**}Result applies to 12mm thickness.

Frequency (Hz)	12 mm	25 mm	50 mm				
100	0.02	0.06	0.20				
125	0.02	0.08	0.37				
160	0.04	0.14	0.53				
200	0.06	0.23	0.89				
250	0.11	0.49	0.91				
315	0.15	0.82	0.62				
400	0.25	0.91	0.49				
500	0.42	0.71	0.45				
630	0.78	0.55	0.43				
800	0.88	0.48	0.46				
1000	0.58	0.46	0.65				
1250	0.36	0.50	0.73				
1600	0.28	0.59	0.42				
2000	0.29	0.63	0.36				
2500	0.41	0.60	0.50				
3150	0.57	0.46	0.50				
4000	0.60	0.39	0.40				
5000	0.35	0.37	0.38				
NRC	0.35	0.55	0.60				
a _w	0.35	0.55	0.50 (L)				

Tested to ISO 354:2003 at University of Canterbury, New Zealand Report Number: 280, 279 & 278



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Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility of betermine the suitability of the product for their project needs. Mayas seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects. Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for dramages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyroteknc.com/disclaimer.